

# ANNUAL COMPLIANCE REPORT OF MISSOURI PUBLIC WATER SYSTEMS



**Republic Public Water System**



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

2022



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## Summary

In Missouri, the Public Drinking Water Branch of the Missouri Department of Natural Resources is responsible for implementing the Safe Drinking Water Act to assist the state's 2,772 public water systems in providing safe drinking water. The department establishes regulatory limits and monitors for 91 different chemical and microbiological contaminants in public water supplies. This report provides information on how well Missouri's public water systems are meeting these standards.

This report is the 26th Annual Compliance Report produced by the department. It contains compliance statistics for Missouri's public water systems for calendar year 2022. The report shows that 98.2% of Missouri's population that is served by a community public water system received water that met all health-based standards during this period, compared to 2021, when the percentage was 98.9%.

The department prepares this report annually to comply with statutory obligations of the federal Safe Drinking Water Act and to provide the public with a better understanding of the importance of safe and abundant drinking water. The department will provide this report to the U.S. Environmental Protection Agency, who will use the information to prepare a national report on the performance of the nation's public drinking water systems.

## What is a Public Water System?

A public water system provides drinking water through piping or other constructed conveyances for human consumption to at least 15 service connections, or serves an average of at least 25 people for at least 60 days each year.

There are three types of public water systems:

1. **Community systems** include towns, water districts, subdivisions, mobile home parks, and residential facilities, such as nursing homes or prisons.
2. **Nontransient noncommunity systems** regularly serve the same 25 people per day, at least six months per year. Examples include schools and factories.
3. **Transient noncommunity systems** serve at least 25 people per day, at least 60 days of the year. Examples include restaurants, resorts and campgrounds. These smaller systems are typically located in rural areas where it is not feasible to connect to a municipal water supply or a water district.

The department's requirements for construction, operation, and monitoring for systems vary based on their type, population, and water source. For systems that are not public water systems, such as homes served by private wells, local and county health agencies and the Missouri Department of Health and Senior Services facilitate water testing. Data for these private systems are not included in this report.

# The Missouri Public Water Universe

In 2022, there were 2,772 active public water systems in Missouri. Of this total, 1,428 were community, 227 were nontransient noncommunity and 1,117 were transient noncommunity systems.

Missouri’s community water systems served more than 5 million residents. The Missouri River remains the largest source of drinking water for Missourians. The river’s abundant water supply and its proximity to the state’s major population centers make it a valuable resource to the communities that draw from it.

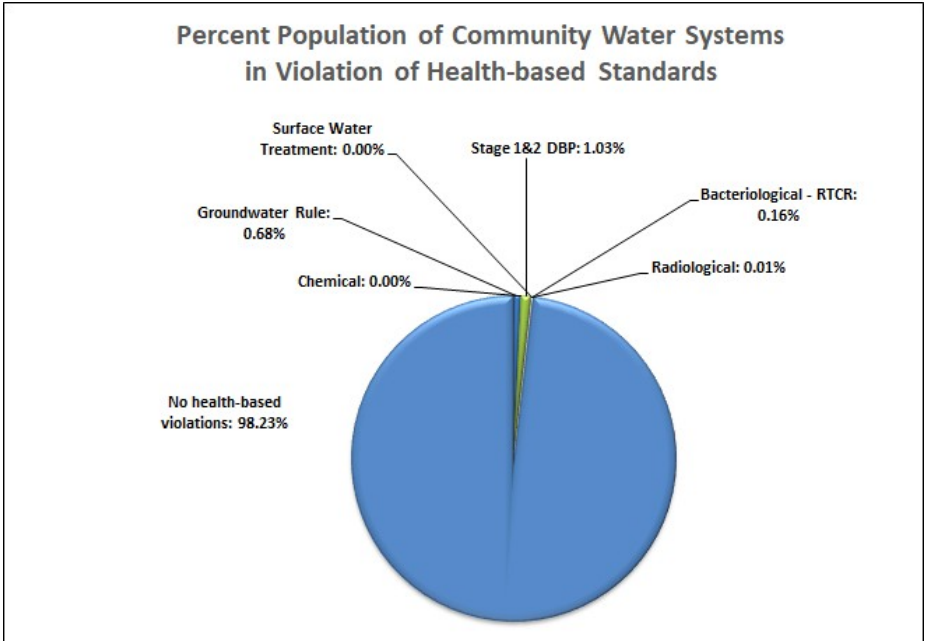
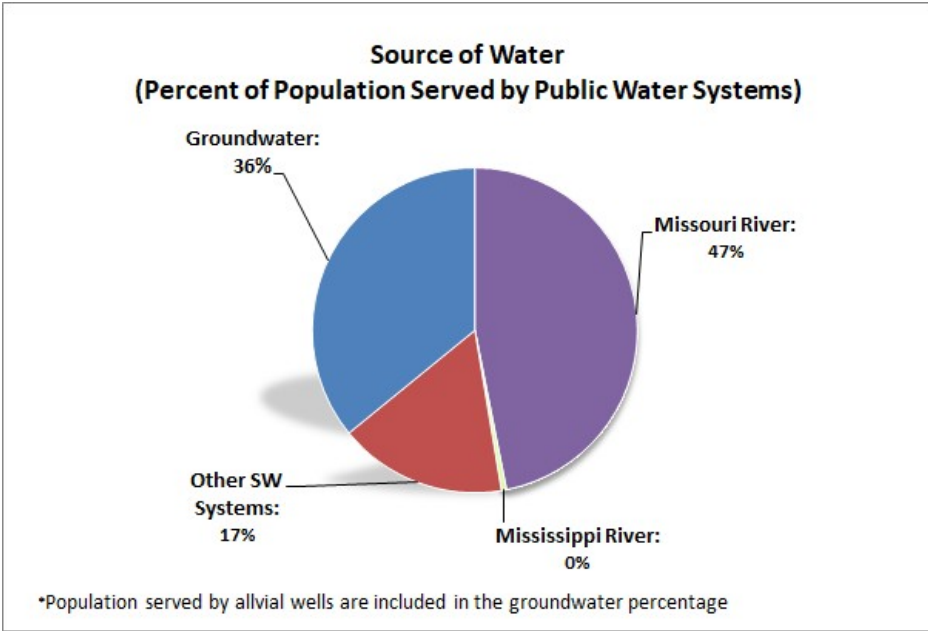
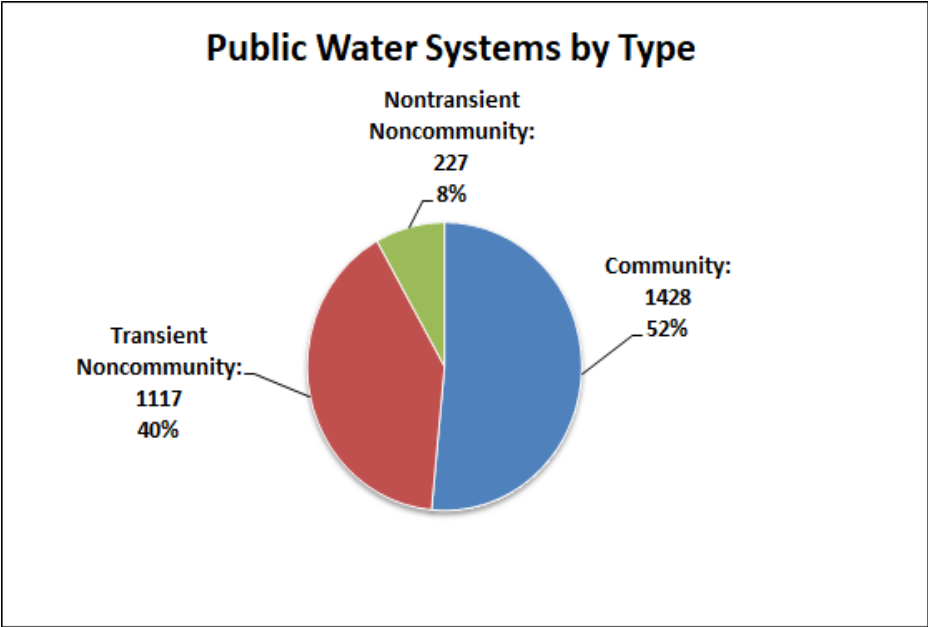
Groundwater is the next most common source of drinking water for community water supplies. In southern Missouri, high-quality groundwater is easy to obtain and typically requires very little treatment for use as drinking water. Public water systems utilizing groundwater as their source serve approximately 35.9% of Missourians who receive their water from a public water system.

All other public water system customers receive their water from community systems that draw from other types of surface water sources. Particularly prevalent in the northern part of Missouri, these sources include rivers and reservoirs.

## Analysis of Compliance

Missouri requires testing for 91 different regulated chemicals and microbiological contaminants on a regular schedule. The Summary of Violations Table in this report counts individual violations by contaminant type. These counts may include multiple violations for the same system, depending on the monitoring schedule for the particular contaminant.

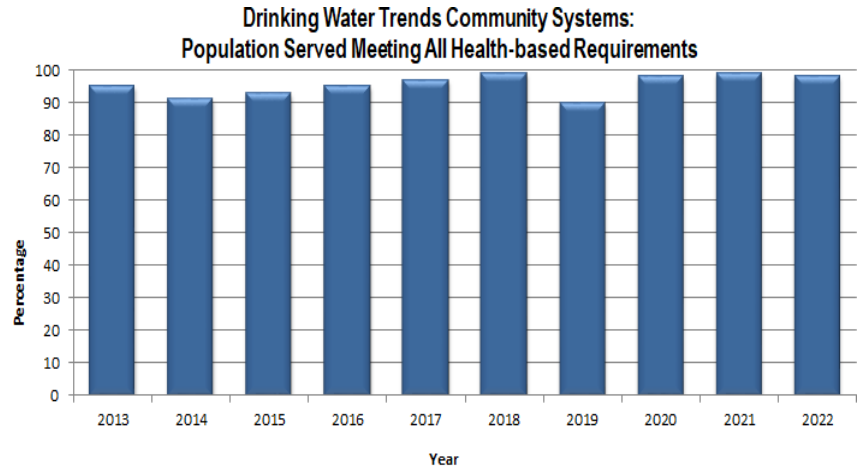
Appendices A and B list specific systems by county that have had violations of different drinking water rules. These rules include the Revised Total Coliform Rule, Radionuclide Rule, Stage 2 Disinfectants and Disinfection Byproduct Rule and the SurfaceWater Treatment Rule.



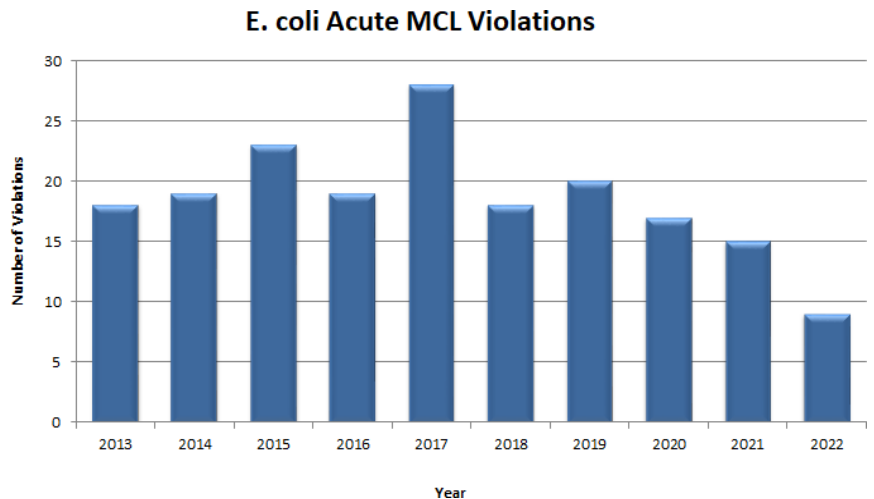
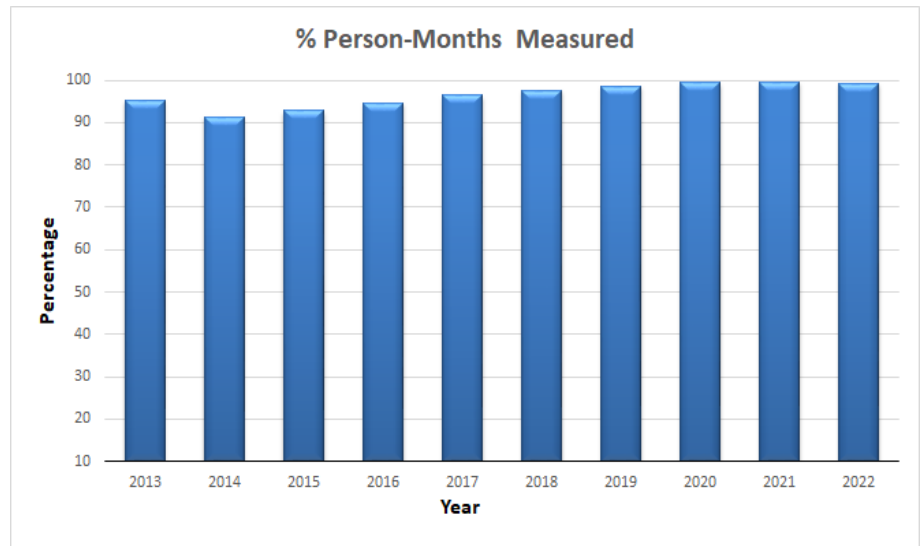
Maximum Contaminant Level (MCL) and treatment-technique violations represent the most significant impact on public health. In 2022, 98.2% of Missouri public water supply customers had water that met all MCL and treatment-technique requirements. The Drinking Water Trends Community Systems Chart shows the 10-year trend for this measure.

Because the above measure counts all MCL and treatment-technique violations throughout the year with no consideration given to the duration of the violation, EPA and the states developed an additional compliance measure called “person-months.” This measure represents the population served by community water systems that meet health-based standards on a monthly basis. Missouri achieved 99.31% compliance with this measure in 2022.

EPA calculates many of the MCL and treatment-technique violations based on chronic (long-term, regular, and consistent) exposure. EPA’s MCL based on acute (short-term) exposure can include turbidity exceedances or E.coli detections. In 2022, the department issued nine violations for acute contaminants to seven public water systems, equal to 0.25% of all Missouri systems. All of these violations were associated with the detection of E.coli.



The lower compliance percentage for 2019 reflects violations issued to systems impacted by flooding.



## How to Find More Information on Your Water System

Community water systems must distribute Consumer Confidence Reports annually to water customers. These reports provide detailed information about sources and levels of contaminants in the drinking water, and must list all violations of state and federal requirements for the calendar year. In 2022, 90% of Missouri's community water systems distributed their Consumer Confidence Reports properly. You may obtain a copy of the Consumer Confidence Report for your public water system by contacting your service provider or the department's Consumer Confidence Report website at [dnr.mo.gov/water/how-water/we-drink/drinking-reports/consumer-confidence](https://dnr.mo.gov/water/how-water-we-drink/drinking-reports/consumer-confidence). The department also maintains the Drinking Water Watch website at [dnr.mo.gov/DWW/DNRLogin.jsp](https://dnr.mo.gov/DWW/DNRLogin.jsp) which provides additional information on all of Missouri's public drinking water systems, including information on inventories, sample results, compliance activities, and water quality.

## For More Information

Information about Missouri's public water systems can be obtained by writing to the Missouri Department of Natural Resources, Water Protection Program, Public Drinking Water Branch, P.O. Box 176, Jefferson City, MO 65102-0176, or by calling 800-361-4827 or 573-751-0124.

Information is also available online at [dnr.mo.gov/water/how-water/we-drink](https://dnr.mo.gov/water/how-water/we-drink).



Republic Public Water System



## Explanation of Terms in Violations Tables

The following descriptions apply to the violations table.

**Filtered Systems:** Water systems that have installed filtration treatment [10 CSR 60-4.050].

**Ground Water Rule:** A rule (10 CSR 60-4.025) that requires monitoring of groundwater sources for E. coli contamination. It relies on four strategies to address this risk: periodic sanitary surveys, triggered source water monitoring in the case of a positive sample, corrective action for a system found to have a significant deficiency or source water E. coli contamination, and compliance monitoring to ensure the treatment technology is reliable.

**Inorganic Contaminants:** Non-carbon-based compounds, such as metals, fluoride, and nitrates. These contaminants are naturally occurring in some water, but can also enter water through human activities [10 CSR 60-4.030].

**Lead and Copper Rule:** A rule (10 CSR 60, Chapter 15) to address lead and copper corrosion, which poses health risks when ingested at any level, and can enter drinking water from household pipes and plumbing fixtures. Violations are reported for: failure to monitor; failure to install optimal corrosion-control treatment or a source-water treatment system that would reduce lead and copper levels in water at the tap; failure to replace lead service lines on the schedule required by the regulation; and, failure to provide required public education about reducing or avoiding lead intake from drinking water.

**Maximum Contaminant Level (MCL):** The highest amount of a contaminant allowed in drinking water. MCLs ensure drinking water does not pose a health risk and are defined in milligrams per liter (parts per million) unless otherwise specified.

**Monitoring:** Sampling and analytical testing specified by the department, including testing methods, and frequency [10 CSR 60-4.010]. Failure to test and failure to report results timely are significant monitoring violations.

**Organic Contaminants:** Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally enter water through runoff from cropland or discharge from factories [10CSR 60- 4.040 and 4.100].

**Radionuclides:** Radioactive particles that occur naturally in water or result from human activity. Safe drinking water regulations set MCLs on five types of radionuclides: radium-226, radium-228, uranium, gross alpha, and beta particle/photon radioactivity [10 CSR 60-4.060].

**Surface Water Treatment Rule:** A series of rules, promulgated from 1989-2009, that establish criteria under which water systems supplied by surface water sources, or groundwater sources under the direct influence of surface water, must filter and disinfect their water (Surface Water Treatment Rule, Interim Enhanced Surface Water Treatment Rule, Long Term1 Enhanced Surface Water Treatment Rule, Long Term2 Enhanced Surface Water Treatment Rule) [10 CSR60-4.050and60-4.052].

**Treatment Techniques:** Enforceable procedures or levels of technological performance that public water systems must follow to ensure control of contaminants for which no MCL is established. For example, EPA established treatment techniques for viruses, bacteria, turbidity, and failure to correct a significant deficiency.

**Violation:** A failure to meet any state or federal drinking water regulation.



## Organic Contaminants: Jan. 1, 2022 - Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems Violations
Organic Contaminants							
1,1,1-Trichloroethane	0.2	0	0			20	19
1,1,2-Trichloroethane	0.005	0	0			20	19
1,1-Dichloroethylene	0.007	0	0			20	19
1,2,4-Trichlorobenzene	0.07	0	0			20	19
1,2-DBCP	0.0002	0	0			0	0
1,2-Dichloroethane	0.005	0	0			20	19
1,2-Dichloropropane	0.005	0	0			20	19
2,3,7,8-T CDD (Dioxin)	3x10-8	0	0			0	0
2,4,5-TP	0.05	0	0			1	1
2,4-D	0.07	0	0			1	1
Alachlor	0.002	0	0			0	0
Aldicarb	0.003	0	0			1	1
Aldicarb Sulfone	0.002	0	0			1	1
Aldicarb Sufoxide	0.004	0	0			1	1
Atrazine	0.003	0	0			5	4
Benzene	0.005	0	0			20	19
Benzo[a]pyrene	0.0002	0	0			0	0
BHC Gamma	0.0002	0	0			1	1
Carbofuran	0.04	0	0			1	1
Carbon tetrachloride	0.005	0	0			20	19
Chlorobenzene	0.1	0	0			20	19
Chlordane	0.002	0	0			1	1
cis-1,2-Dichloroethylene	0.07	0	0			20	1
Dalapon	0.2	0	0			1	1
Di(2-ethylhexyl)adipate	0.4	0	0			0	0
Di(2-ethylhexyl)phthalate	0.006	0	0			0	0
Dichloromethane	0.005	0	0			20	19
Dinoseb	0.007	0	0			1	1
Diquat	0.02	0	0			0	0
Endothall	0.1	0	0			0	0
Endrin	0.002	0	0			1	1
Ethylbenzene	0.7	0	0			20	19
Ethylene dibromide	0.00005	0	0			0	0
Glyphosate	0.7	0	0			0	0
Heptachlor	0.0004	0	0			1	1

<sup>1</sup>Values are in milligrams per liter (mg/L), unless otherwise specified

\*Shaded areas indicate a violation is not applicable in this category

## Organic Contaminants: Jan. 1, 2022 - Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring/Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Heptachlor epoxide	0.0002	0	0			1	1
Hexachlorobenzene	0.05	0	0			1	1
Hexachlorobenzene	0.001	0	0			0	0
Hexachlorocyclopentadiene	0.05	0	0			1	1
Lasso	0.05	0	0			5	4
Lindane	0.0002	0	0			0	0
Methoxychlor	0.04	0	0			1	1
Monochlorobenzene	0.1	0	0			0	0
o-Dichlorobenzene	0.6	0	0			20	19
Oxamyl (Vydate)	0.2	0	0			1	1
Para-Dichlorobenzene	0.075	0	0			20	19
Pentachlorophenol	0.001	0	0			1	1
Picloram	0.5	0	0			1	1
Simazine	0.004	0	0			5	4
Styrene	0.1	0	0			20	19
Tetrachloroethylene	0.005	0	0			20	19
Toluene	1	0	0			20	19
Total PCB	0.0005	0	0			0	0
Toxaphene	0.003	0	0			1	1
Trans-1,2-Dichloroethylene	0.1	0	0			20	19
Trichloroethylene	0.005	0	0			20	19
Vinyl chloride	0.002	0	0			20	19
Xylenes (total)	10	0	0			20	19

## Disinfection Byproducts Rule: Jan. 1, 2022 - Dec. 31, 2022

		MCL		Treatment Techniques		Significant Monitoring/Reporting	
	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Total trihalomethanes	0.80	23	12			47	47
Chlorite	1.00	2	2				
Haloacetic acids	0.60	1	1			47	47
Disinfection byproducts		26	15	0	0	94	47
Total Organic Compounds				4	2		
Insufficient or Non-certified Operator				22	21		

## Inorganic Contaminants: Jan. 1, 2022 - Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring/ Reporting	
	MCL (mg/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of System Violations
Inorganic Contaminants							
Antimony	0.006	0	0	0	0	10	10
Arsenic	0.010	3	1	0	0	10	10
Asbestos	7 million fibers/L	0	0	0	0	0	0
Barium	2	0	0	0	0	10	10
Beryllium	0.004	0	0	0	0	10	10
Cadmium	0.005	0	0	0	0	10	10
Chromium	0.1	0	0	0	0	10	10
Cyanide (as free cyanide)	0.2	0	0	0	0	1	1
Fluoride	4.0	0	0	0	0	10	10
Mercury	0.002	0	0	0	0	10	10
Nitrate	10 (as nitrogen)	0	0	0	0	0	0
Nitrite	1 (as nitrogen)	0	0	0	0	0	0
Selenium	0.05	0	0	0	0	10	10
Thalium	0.002	0	0	0	0	10	10
Total nitrate and nitrite	10 (as nitrogen)	0	0	0	0	76	76

## Radiological Contaminants: Jan. 1, 2022 - Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL (pCi/L)	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Radiological Contaminants							
Gross Alpha	15 pCi/L	1	1			5	2
Radium-226 and radium-228	5 pCi/L	9	3			5	2
Gross beta	4 mrem/yr	0	0			0	0
Subtotal		10	3			10	2

## Microbiological Contaminants: Jan. 1, 2022 – Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL Presence/ Absence	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Revised Total Coliform Rule							
Acute MCL Violations	Presence	9	7				
Level 1 Assessment Violations				20	20		
Level 2 Assessment Violations				0	0		
Treatment Technique, Other				18	13		
Major Routine						539	339
Minor Routine						35	34
Reporting/Notification						24	19
Subtotal		9	7	38	31	598	379

Some systems may have violations in multiple categories.



## Surface Water Treatment Rule: Jan. 1, 2022 – Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Surface Water Treatment							
Filtered Systems							
Monitoring, routine/repeat						1	1
Treatment Techniques				1	1		
Unfiltered Systems							
Monitoring, routine/repeat							
Failure to Filter							
Subtotal				1	1	1	1

## Lead and Copper Rule: Jan. 1, 2022 – Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Lead and Copper Rule							
Initial lead and copper tap monitoring and reporting						1	1
Follow-up or routine lead and copper tap monitoring and reporting						34	33
Treatment Installation				0	0		
Public education				0	0	26	26
Subtotal				0	0	61	60

## Public Notification: Jan. 1, 2022 – Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Public Notification						206	183
Consumer Confidence Reports <sup>1</sup>						144	144
Subtotal						350	269

<sup>1</sup> Violations for failure to produce and distribute the 2021 Consumer Confidence Report in 2022.

## Groundwater Rule: Jan. 1, 2022 – Dec. 31, 2022

		MCL		Treatment Technique		Significant Monitoring /Reporting	
	MCL	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations	No. of Violations	No. of Systems with Violations
Groundwater Rule							
Failure to treat				15	10		
Failure to address contamination				0	0		
Failure to address deficiency				40	37		
Public notice						0	0
Sanitary Survey						12	12
Major routine and follow up monitoring						88	68
Subtotal				55	47	100	80

## Appendix A: Health Based Compliance

### I. Revised Total Coliform Rule - Acute MCL Violations

The following systems were under boil water orders due to acute MCL violations for E. coli bacteria for the months

County	ID#	System Name	Month(s)	Issue	Rescind
DOUGLAS	MO5241141	TWIN BRIDGES CANOE AND CAMPGROUND	February	3/12/2022	3/23/2022
FRANKLIN	MO6242645	CAMP TRINITY	May	5/27/2022	6/10/2022
FRANKLIN	MO6048206	PARADISE MHP	May	5/23/2022	5/31/2022
MONITEAU	MO3010124	CALIFORNIA PWS	June	7/01/2022	7/07/2022
OZARK	MO5212896	HITCH N POST	December	1/05/2023	1/10/2023
PULASKI	MO3036363	MISTY MOUNTAIN PWS	November	11/17/2022	4/13/2023
PULASKI	MO3036363	MISTY MOUNTAIN PWS	August	8/19/2022	4/13/2023
PULASKI	MO3036363	MISTY MOUNTAIN PWS	October	11/17/2022	4/13/2023
STODDARD	MO4010255	ESSEX PWS	July	7/26/2022	8/11/2022

Note: If no "Rescind Date", the boil order was still in effect at time of printing.

### II. Revised Total Coliform Rule - Treatment Technique Violations

County	ID#	System Name	Violation Type
BARRY	MO5211301	KINGS HARBOR RESORT	Failure to Correct Sanitary Defect
BARRY	MO5213361	ROOT CELLAR	Failure to Correct Sanitary Defect
BENTON	MO3190266	RIVERS END MOTEL AND RV PARK	Failure to Conduct Level 1 Assessment
BOONE	MO2243340	COOPERS LANDING	Failure to Correct Sanitary Defect
CAMDEN	MO5212834	COME ON IN CAFE	Failure to Conduct Level 1 Assessment
CAMDEN	MO3190730	SUNSET BEACH RESORT	Failure to Conduct Level 1 Assessment
CEDAR	MO5238288	AIRPORT VILLAGE MHP	Failure to Correct Sanitary Defect
CEDAR	MO5238288	AIRPORT VILLAGE MHP	Failure to Conduct Level 1 Assessment
CEDAR	MO5212752	ORLEANS TRAIL RESTAURANT	Failure to Conduct Level 1 Assessment
DOUGLAS	MO5072789	CACTUS CANYON CAMPGROUND	Failure to Conduct Level 1 Assessment
GREENE	MO5272441	AGAPE LIFE FELLOWSHIP	Failure to Conduct Level 1 Assessment
GREENE	MO5283305	DOLLAR GENERAL #21834 SPRINGFIELD	Failure to Correct Sanitary Defect
HICKORY	MO5213293	SHERYLS CORNER BAR	Failure to Conduct Level 1 Assessment
JEFFERSON	MO6283249	FORE HONOR GOLF COURSE	Failure to Conduct Level 1 Assessment
LAWRENCE	MO5212682	SINGH PROPERTY LLC DBA MISSOURI	Failure to Conduct Level 1 Assessment
MCDONALD	MO5272955	BUFFALO CREEK BAPTIST CHURCH	Failure to Correct Sanitary Defect
MCDONALD	MO5211225	CAFE 76	Failure to Conduct Level 1 Assessment
MILLER	MO3048097	DOOLITTLE MHP	Failure to Conduct Level 1 Assessment
MONITEAU	MO3024395	MONITEAU COUNTY PWSD 1	Failure to Conduct Level 1 Assessment
MORGAN	MO5213274	10-42 BAR & QUE	Failure to Conduct Level 1 Assessment
MORGAN	MO3031358	MORGAN COUNTY PWSD # 2	Failure to Conduct Level 1 Assessment
OZARK	MO5202448	LOST WOODS GOLF COURSE	Failure to Conduct Level 1 Assessment
PETTIS	MO3048254	CRESTVIEW MHP	Failure to Correct Sanitary Defect
PHELPS	MO4212840	MATTS STEAKHOUSE	Failure to Conduct Level 1 Assessment
PULASKI	MO3036363	MISTY MOUNTAIN PWS	Failure to Correct Sanitary Defect
ST CLAIR	MO5238065	KREBS MOBILE HOME LIVING	Failure to Conduct Level 1 Assessment
ST CLAIR	MO5212121	WILDFLOWER INN	Failure to Conduct Level 1 Assessment
ST CLAIR	MO5212121	WILDFLOWER INN	Failure to Correct Sanitary Defect
ST FRANCOIS	MO4061660	CLUBB VILLA SENIOR LIVING	Failure to Correct Sanitary Defect
STONE	MO5191575	ARTILLA COVE RESORT	Failure to Conduct Level 1 Assessment
STONE	MO5031103	KINGDOM HEIGHTS	Failure to Correct Sanitary Defect
STONE	MO5030473	STARLIGHT VILLAGE	Failure to Correct Sanitary Defect
WAYNE	MO4010640	PIEDMONT PWS	Failure to Correct Sanitary Defect



## Appendix A - Health Based Compliance

### III. Revised Total Coliform Rule - Level 1 and Level 2 Assessment

Since the transition to the Revised Total Coliform Rule April 1, 2016, the following systems have exceeded the coliform treatment technique trigger - triggering an assessment on more than one occasion in 2022. These assessments are triggered for the following reasons: systems collecting forty (40) or more samples per month exceeding 5.0% total-coliform positive samples for the month, systems collecting fewer than forty (40) samples per month having two (2) or more coliform-positive samples for the month, failing to collect every required repeat sample after any coliform-positive sample, or incurring an E coli MCL violation.

County	ID#	System Name	Assessments
BARRY	MO5211301	KINGS HARBOR RESORT	2
BARRY	MO5213361	ROOT CELLAR	2
BARRY	MO5261623	COUNTRY VILLAGE MHP	2
CARTER	MO4010811	VAN BUREN PWS	3
CRAWFORD	MO3190845	SKIPPYS ROUTE 66 INN	2
CRAWFORD	MO3212550	RILEY SPENCE PROPERTIES NO 3	2
DADE	MO5031397	THREE HILLS SUBDIVISION	2
DALLAS	MO5293354	MELTONS 64 73 JUNCTION	2
DOUGLAS	MO5241141	TWIN BRIDGES CANOE AND CAMPGROUND	2
FRANKLIN	MO6242645	CAMP TRINITY	2
GREENE	MO5273164	THE OLD GOSPEL CHURCH	2
HICKORY	MO5213293	SHERYLS CORNER BAR	2
HICKORY	MO5251418	REMINGTON RANGE	2
JASPER	MO5172883	NEW COVENANT CHURCH	2
JEFFERSON	MO6024296	JEFFERSON COUNTY PWSD 5	2
JEFFERSON	MO6048616	MANDERLY MHP	2
JEFFERSON	MO6283324	DOLLAR GENERAL #22226 WARE	2
LAWRENCE	MO5031641	PARK WOODS WATER COMPANY INC	2
LAWRENCE	MO5258127	COTTERS COUNTRY JUNCTION	2
MADISON	MO4213373	BEAVER VALLEY GOLF CLUB	2
MADISON	MO4243350	TRAILS END RANCH CAMPGROUND	3
MARIES	MO3010054	BELLE PWS	2
MCDONALD	MO5211225	CAFE 76	2
MCDONALD	MO5272955	BUFFALO CREEK BAPTIST CHURCH	2
MILLER	MO3190813	THE RESORT AT LAKE OF THE OZARKS	3
MORGAN	MO3031358	MORGAN COUNTY PWSD # 2	4
MORGAN	MO5252990	WASHBURN POINT SUBDIVISION	2
OZARK	MO5171207	DORA R III SCHOOLS	2
OZARK	MO5211828	CANEY MOUNTAIN COMMONS	2
OZARK	MO5212896	HITCH N POST	3
PHELPS	MO3048123	STATELY MANSION MOBILE VILLA	3
PHELPS	MO4212742	STUCKEYS DOOLITTLE	2
PULASKI	MO3036363	MISTY MOUNTAIN PWS	3
ST CLAIR	MO5171219	ROSCOE C 1 ELEMENTARY SCHOOL	2
ST CLAIR	MO5212121	WILDFLOWER INN	3
ST FRANCOIS	MO4061660	CLUBB VILLA SENIOR LIVING	7
ST LOUIS	MO6202439	WEST TYSON COUNTY PARK	2
STONE	MO5036250	OAK SHADOWS WATER ASSN	2
STONE	MO5190962	WHITE WING RESORT	2
STONE	MO5293125	JOE BALD MARKET	2
TANEY	MO5283277	THE ATRIUM EVENT CENTER	3
WASHINGTON	MO4010003	CALEDONIA PWS	2

## Appendix A: Health Based Compliance

### IV. Radiological MCL Violations

County	ID#	System Name	Chemical
LINCOLN	MO6010902	SILEX PWS	COMBINED RADIUM (-226 & -228)
LINCOLN	MO6036279	SUMMERHAVEN SUBDIVISION	GROSS ALPHA, EXCL. RADON & U
LINCOLN	MO6036279	SUMMERHAVEN SUBDIVISION	COMBINED RADIUM (-226 & -228)
ST FRANCOIS	MO4061660	CLUBB VILLA SENIOR LIVING	COMBINED RADIUM (-226 & -228)

### V. Chemical MCL Violations

County	ID#	System Name	Chemical
ADAIR	MO2010429	KIRKSVILLE PWS	TOTAL TRIHALOMETHANE (TTHM)
CALDWELL	MO1010098	BRAYMER PWS	TOTAL TRIHALOMETHANE (TTHM)
CAPE GIRARDEAU	MO4283342	VERDESIA INC	ARSENIC
CASS	MO1010301	MO AMERICAN GARDEN CITY	CHLORITE
CHARITON	MO2010420	KEYTESVILLE PWS	TOTAL TRIHALOMETHANE (TTHM)
CLAY	MO1010546	MOSBY PWS	TOTAL TRIHALOMETHANE (TTHM)
DEKALB	MO1010510	MAYSVILLE PWS	CHLORITE
HARRISON	MO1010306	GILMAN CITY PWS	TOTAL TRIHALOMETHANE (TTHM)
IRON	MO4010402	IRONTON PWS	TOTAL TRIHALOMETHANE (TTHM)
JEFFERSON	MO6010198	CRYSTAL CITY PWS	TOTAL TRIHALOMETHANE (TTHM)
MONROE	MO2010538	MONROE CITY PWS	TOTAL TRIHALOMETHANE (TTHM)
MORGAN	MO5301457	MILLSTONE LUXURY CONDO	TOTAL HALOACETIC ACIDS (HAA5)
PLATTE	MO1024477	PLATTE COUNTY PWSD 3	TOTAL TRIHALOMETHANE (TTHM)
RALLS	MO2024499	RALLS COUNTY PWSD 1	TOTAL TRIHALOMETHANE (TTHM)
SULLIVAN	MO2010329	GREEN CITY PWS	TOTAL TRIHALOMETHANE (TTHM)
SULLIVAN	MO2010523	MILAN PWS	TOTAL TRIHALOMETHANE (TTHM)

### VI. Surface Water Violations

The following systems violated the Surface Water Rule, Treatment Technique for Turbidity or other surface water requirements in the months or annual period indicated.

County	ID#	System Name	Period	Violation
CLAY	MO1010748	SMITHVILLE PWS	October	Routine Monitoring
SULLIVAN	MO2181076	SMITHFIELD FRESH MEATS CORP	June	Combined Filter Effluent Turbidity

## Appendix A - Health Based Compliance

### VII. Groundwater Rule - Treatment Technique Violations

County	ID#	System Name	Violation Type
BARRY	MO5211850	PIZZA HUT	Failure to Address Deficiency
BARRY	MO5218163	THE STEAK INN	Failure to Address Deficiency
BARRY	MO5243343	PEDDLERS RV PARK	Failure to Address Deficiency
BUTLER	MO4010993	NEELYVILLE PWS	Failure to Address Deficiency
BUTLER	MO4036069	LAKELAND HEIGHTS WATER CO	Failure to Address Deficiency
CAMDEN	MO3218029	CARDINAL COVE	Failure to Address Deficiency
CARROLL	MO2010215	DEWITT PWS	Failure to Address Deficiency
CEDAR	MO5238288	AIRPORT VILLAGE MHP	Failure to Address Deficiency
COLE	MO3292542	17 EAGLE STOP	Failure to Maintain Microbial Treatment
DUNKLIN	MO4010170	CLARKTON PWS	Failure to Maintain Microbial Treatment
DUNKLIN	MO4024207	DUNKLIN COUNTY PWSD 2	Failure to Address Deficiency
FRANKLIN	MO6036126	ARGYLE ESTATES WATER SUPPLY	Failure to Address Deficiency
FRANKLIN	MO6241626	CAMP MO VAL CAMP TAMBO	Failure to Address Deficiency
JASPER	MO5041599	PLEASANT VALLEY MHP	Failure to Maintain Microbial Treatment
LAWRENCE	MO5258127	COTTERS COUNTRY JUNCTION	Failure to Maintain Microbial Treatment
LINCOLN	MO6010866	WINFIELD PWS	Failure to Address Deficiency
LINCOLN	MO6031327	QUAIL RUN MHP	Failure to Address Deficiency
MCDONALD	MO5031173	SKY BLUE WATER INC	Failure to Address Deficiency
MCDONALD	MO5291270	FRESH WAY #3	Failure to Maintain Microbial Treatment
MISSISSIPPI	MO4010067	BERTRAND PWS	Failure to Maintain Microbial Treatment
MISSISSIPPI	MO4021178	MISSISSIPPI COUNTY PWSD 1	Failure to Address Deficiency
MONTGOMER	MO6010521	MIDDLETOWN PWS	Failure to Address Deficiency
MORGAN	MO3240046	WONDERLAND CAMP	Failure to Address Deficiency
NEW MADRID	MO4010468	LILBOURN PWS	Failure to Address Deficiency
NEW MADRID	MO4010626	PARMA PWS	Failure to Address Deficiency
NEW MADRID	MO4010689	RISCO PWS	Failure to Maintain Microbial Treatment
NEWTON	MO5048274	TIMBERLOST MHP	Failure to Address Deficiency
NEWTON	MO5242492	SKATELAND	Failure to Address Deficiency
NODAWAY	MO1010508	MARYVILLE PWS	Failure to Address Deficiency
OSAGE	MO3010155	CHAMOIS PWS	Failure to Address Deficiency
PEMISCOT	MO4010758	STEELE PWS	Failure to Address Deficiency
PETTIS	MO3010332	GREEN RIDGE PWS	Failure to Address Deficiency
PETTIS	MO3048254	CRESTVIEW MHP	Failure to Address Deficiency
PETTIS	MO3190887	BUDGET INN	Failure to Address Deficiency
PETTIS	MO3248217	HAPPY ACRES TRAILER PARK	Failure to Address Deficiency
RIPLEY	MO4024523	RIPLEY COUNTY PWSD 2	Failure to Address Deficiency
ST FRANCOIS	MO4061660	CLUBB VILLA SENIOR LIVING	Failure to Address Deficiency
STODDARD	MO4024583	STODDARD COUNTY PWSD 3	Failure to Address Deficiency
STONE	MO5030473	STARLIGHT VILLAGE	Failure to Address Deficiency
STONE	MO5031125	BUTTERMILK SPRINGS WATER ASSN	Failure to Maintain Microbial Treatment
TEXAS	MO4010777	SUMMERSVILLE PWS	Failure to Maintain Microbial Treatment
WARREN	MO6031658	CLAREMONT SUBDIVISION	Failure to Address Deficiency
WASHINGTON	MO4011123	MINERAL POINT PWS	Failure to Address Deficiency
WASHINGTON	MO4283167	DOLLAR GENERAL #15600 WASHINGTON COUNTY	Failure to Address Deficiency
WAYNE	MO4010640	PIEDMONT PWS	Failure to Address Deficiency
WAYNE	MO4243306	RIVER VALLEY CAMPGROUND	Failure to Address Deficiency
WEBSTER	MO5010699	ROGERSVILLE PWS	Failure to Maintain Microbial Treatment



## Appendix A: Health Based Compliance

### VIII. Other Treatment Technique Violations

County	PWS ID #	System Name	Violation
HICKORY	MO5010197	CROSS TIMBERS PWS	QUALIFIED OPERATOR FAILURE
HOLT	MO1010191	CRAIG PWS	QUALIFIED OPERATOR FAILURE
IRON	MO4010402	IRONTON PWS	QUALIFIED OPERATOR FAILURE
JASPER	MO5048021	SUNSET MHP	QUALIFIED OPERATOR FAILURE
LAWRENCE	MO5048294	JAMES TOWNE MHP	QUALIFIED OPERATOR FAILURE
LINCOLN	MO6010902	SILEX PWS	QUALIFIED OPERATOR FAILURE
MCDONALD	MO5031173	SKY BLUE WATER INC	QUALIFIED OPERATOR FAILURE
MILLER	MO3010396	IBERIA PWS	QUALIFIED OPERATOR FAILURE
MONTGOMERY	MO6010521	MIDDLETOWN PWS	QUALIFIED OPERATOR FAILURE
NEW MADRID	MO4010626	PARMA PWS	QUALIFIED OPERATOR FAILURE
NEWTON	MO5048274	TIMBERLOST MHP	QUALIFIED OPERATOR FAILURE
NODAWAY	MO1010378	HOPKINS PWS	QUALIFIED OPERATOR FAILURE
NODAWAY	MO1010673	RAVENWOOD PWS	QUALIFIED OPERATOR FAILURE
OSAGE	MO3010155	CHAMOIS PWS	QUALIFIED OPERATOR FAILURE
OZARK	MO5030209	SUNDOWN WATER SYSTEM INC	QUALIFIED OPERATOR FAILURE
PEMISCOT	MO4010758	STEELE PWS	QUALIFIED OPERATOR FAILURE
PETTIS	MO3248217	HAPPY ACRES TRAILER PARK	QUALIFIED OPERATOR FAILURE
PETTIS	MO3248217	HAPPY ACRES TRAILER PARK	QUALIFIED OPERATOR FAILURE
RAY	MO1010685	RICHMOND PWS	QUALIFIED OPERATOR FAILURE
REYNOLDS	MO4010243	ELLINGTON PWS	QUALIFIED OPERATOR FAILURE
TANEY	MO5048214	WALL EYE HAVEN MHP	QUALIFIED OPERATOR FAILURE
TANEY	MO5031481	OAK BROOK ESTATES	QUALIFIED OPERATOR FAILURE

## APPENDIX B

### Chronic Major Monitoring Violators

The following systems had three or more major monitoring violations of the Revised Total Coliform Rule in 2022.

County	PWS ID #	System Name	Months
BENTON	MO3190264	HIDDEN LAKE RESORT	February, August, December
BENTON	MO3190266	RIVERS END MOTEL	April, May, June, August, October
BUTLER	MO4010993	NEELYVILLE PWS	February, April, June, September, October
BUTLER	MO4191461	OZARK ACRES	February, June, July
CAMDEN	MO3190958	BAYMONT INN & SUITES	April, June, September
CAMDEN	MO3218029	CARDINAL COVE	June, August, September, November, December
CAMDEN	MO3212312	FISH & COMPANY	July, September, October
CAMDEN	MO5242623	LITTLE NIANGUA CAMPGROUND	April, May, July, September
CAMDEN	MO3212554	MACCABEES BAR AND GRRR	February, June, August, September, October
CAMDEN	MO5212764	THE BLUE CAT TAVERN	August, September, November, December
CEDAR	MO5238288	AIRPORT VILLAGE MHP	January – November
CRAWFORD	MO3212550	RILEY SPENCE PROPERTIES NO 3	January, February, November
FRANKLIN	MO6241577	MERAMEC CAMPGROUND LLC	April, August, October
HICKORY	MO5010197	CROSS TIMBERS PWS	February, July, August, September, November
JEFFERSON	MO6292410	CEDAR HILL #508	February, May, July
JEFFERSON	MO6203327	PINE HOLLOW	March, April, May, June
LINCOLN	MO6291625	CASTLES GROCERY AND CAFE	March, June, October
LINCOLN	MO6273193	CHRIST CENTERED CHURCH	April, September, November
MCDONALD	MO5041094	ELK O VUE RIVER PARK MHP	March, July, September
MCDONALD	MO5291270	FRESH WAY #3	February, April, June, November
MCDONALD	MO5031173	SKY BLUE WATER INC	January, February, April
MCDONALD	MO5203363	THE OLD HOMESTEAD RV PARK	April, August, November
MONTGOMERY	MO3291410	REDS GAS	February, April, September
MORGAN	MO5213274	10-42 BAR & QUE	July, September, November
MORGAN	MO3190821	IVY BEND RESORT	February, May, September
MORGAN	MO3212300	MAGGIES ON THE LAKE	July, August, September, October
OZARK	MO5242740	SUNBURST RANCH	May, June, July, August, October
PETTIS	MO3190887	BUDGET INN	January – August, October
PETTIS	MO3248217	HAPPY ACRES TRAILER PARK	January - March, May, August, October, November
POLK	MO5069073	HOME COURT ADVANTAGE	May, August, November, December
ST CHARLES	MO6233251	LAKE CENTER MARINA	April, June, July, August, September, October
ST CHARLES	MO6213205	WILDSCHUETZ BROTHERS FARM	February, May, July, October
ST CLAIR	MO5258124	SCOTTS ICONIUM STORE	May, June, December
ST FRANCOIS	MO4250576	FARMINGTON AMVETS POST 113	February, March, August, September
ST FRANCOIS	MO4292751	ROY'S #7	February, April, June
STONE	MO5199993	CREST LODGE RESORT	April, June, July, September, October
STONE	MO5273118	PINES COMMUNITY CHRISTIAN CHURCH	January, March, August, November
STONE	MO5030473	STARLIGHT VILLAGE	January – December
STONE	MO5272979	TALKING ROCKS ROAD BAPTIST CHURCH	March, May, December
TANEY	MO5242442	BRANSON VIEW CAMPGROUND	February, May, June, August, September
TANEY	MO5283213	SYCAMORE CREEK FAMILY RANCH	August, September, October
WASHINGTON	MO4173065	LITTLE LEARNERS ACADEMY	March, September, October
WAYNE	MO4010527	MILL SPRING PWS	March, April, May, November
WAYNE	MO4021384	WAYNE COUNTY PWSD 3	March, April, May
WEBSTER	MO5183137	UNDERCOVER TRUCK BED COVERS	January, March, December

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